

# DATA SHEET



## Ascom Myco 4 Slim Cellular and Wi-Fi

### Features

- Security maintenance releases until end of 2030
- Camera-based barcode scanner with viewfinder  
— reading 1D/2D barcodes
- Man-down and no-movement detection
- Native SIP telephony  
— certified interoperability with major IP-PBXs
- Location services: BLE, Wi-Fi, GPS
- Deployment with Zero-touch, QR code, NFC
- Over-the-air administration via EMM + OEMConfig app
- Shared phone capability
- Biometric identification  
— fingerprint reader, facial recognition

### Physical Design

- IP68 dust and liquid resistant
- Optimized for use in medical gloves
- Disinfection-ready for daily cleaning incl. UV
- Multicolor top LED
- Configurable multifunction buttons
- Easily replaceable battery, true hot-swap
- Rack and desktop chargers with profiling functionality

### Network

- Cellular networks: GSM / 3G / LTE / 5G  
— incl. 5G SA and private 5G
- Dual SIM (SIM + eSIM)
- Enterprise grade Wi-Fi 6/6E

Technical Specifications	
Overview	
Operating system:	Android™ 13 (upgradable to Android 17)
CPU:	Qualcomm 6490, 2.7 GHz Octa-core
GPU:	3D Hardware accelerated graphics
Internal memory:	128 GB Flash, 6 GB RAM
External connections:	USB-C (headset, charging and data transfer/configuration)
Sensors:	GPS, NFC, three-axes accelerometer, three-axes gyroscope, proximity sensor, light sensor, compass
Browser:	HTML5
Buttons:	Power button, Volume buttons (up/down), Multifunction buttons
Available languages:	Ascom specific: Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Slovak, Spanish, Swedish Supported Android languages: approx. 60
Dimension (H×W×D):	154.6 x 72.6 x 13.1 mm (6.08 x 2.85 x 0.51 in)
Weight:	232 g (8.2 oz)
Color:	Black
Display	
Type:	TFT LCD, Deca capacitive touchscreen
Size and resolution:	5.5", 2160 x 1080 display
Protection:	Corning® Gorilla® Glass 5
Indication	
Types (notifications):	Multicolor LED, vibration
Camera	
Flash:	Yes (can also be used as flashlight)
Auto focus:	Yes
Front-facing camera:	Single lens camera (8 Megapixels)
Rear-facing camera:	Single lens camera (50 Megapixels)
Audio	
Voice quality:	Wideband audio, HD audio
Transmission:	Full duplex (simultaneous talking and listening)
Loudspeaker:	Duplex loudspeaking function

Specifications are subject to change without notice

Maximum sound ring signal level:	88 dBA at 10 cm
Hearing aid:	American (US) Hearing Aid Compatible (HAC) standard
Microphone:	Speech microphone on the bottom side Noise canceling microphone on the top side
<b>Battery</b>	
Type:	Main easily replaceable Li-ion 4000 mAh battery Built-in Li-ion 160 mAh battery for uninterrupted operation during hot swapping of the main battery
System stand-by time:	Up to 300 hours
Speech time:	Up to 30 hours
Browsing time:	Up to 13 hours
Charging time:	Fast charging with a USB-C cable, approx. 2 hours (0-90% charging) and approx. 0.5 hours (0-50% charging)
<b>Headset</b>	
Allowed headsets:	Any Bluetooth or Android compatible USB-C headset
<b>Bluetooth</b>	
Supported version:	5.2 with Bluetooth Low Energy (BLE)
Radio spectrum:	ISM 2.4000 — 2.4835 GHz
Output power:	Class 1
BLE beacon protocols:	iBeacon, AltBeacon
<b>NFC</b>	
Modes & supported standards:	NFC Forum Tag Types 1, 2, 3, 4, 5 (defined by the NFC Forum) (MIFARE Ultralight, Jewel, Open FeliCa tag, MIFARE DESFire, MIFARE Classic) FeliCa PCD mode ISO/IEC 14443A, ISO/IEC 14443B PICC mode via ISO/IEC 15693/ICODE VCD mode host interface ISO/IEC 14443A, ISO/IEC 14443B PCD designed according to NFC Forum digital protocol T4T platform and ISO-DEP MIFARE PCD encryption mechanism (MIFARE 1K/4K) NFCIP-1, NFCIP-2 protocol Host Card Emulation SWP
NFC band:	13.56 MHz
Field strength:	42 dBμA/m at 10 m

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Biometric Identification	
Types of biometrics:	Fingerprint reader on Power button Facial recognition
Location Services	
Location technology:	BLE, Wi-Fi, GPS
Cellular	
5G modes:	Non-standalone (5G NSA), standalone (5G SA), public 5G, private 5G Private 5G PLMN IDs: 999-XX, 234-51, 262-98, 240-65, 240-66
Frequency bands:	Europe (EU/EFTA), Australia, New Zealand: GSM: 850/900/1800/1900 3G: WCDMA (B1, B2, B5, B8) LTE FDD: 1, 2, 3, 5, 7, 8, 20, 26, 28 LTE TDD: 38, 40, 41 5G: n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n77, n78
Power classification (target power):	GSM/GPRS 850/900: Class 4 (33 dBm) GSM/GPRS 1800/1900: Class 1 (30 dBm) EDGE 850/900/1800/1900: Class E2 (27 dBm / 26 dBm) UMTS (CS): Class 3 (23 dBm) UMTS (PS): Class 3 (23 dBm) HSPA: Class 3 (23 dBm) LTE: Class 3 (23 dBm) 5G: Class 3 (24 dBm) (n78 Class 2 (27 dBm))
GNSS:	GPS, GLONASS, Beidou, Galileo, SBAS
SIM type:	Nano-SIM eSIM (supporting remote SIM provisioning)
Dual SIM:	SIM + eSIM
Wi-Fi	
Supported standards:	802.11 a/b/g/n/ac/ax 802.11 k/r/v fast transition roaming 802.11 mc for location 802.11 w 802.11 u
Frequency range:	EU (ETSI): b/g/n/ax: 2.400–2.484 GHz (Ch 1-13) a/n/ac/ax: 5.150–5.350 GHz (Ch 36-64), 5.470–5.725 GHz (Ch 100-140), 5.725–5.850 GHz (Ch 149-165) ax: 5.945–6.425 GHz (Ch 1-93)

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Maximum output power:	100 mW at 2.4 GHz 200 mW at 5.2 GHz 100 mW at 5.3 GHz 100 mW at 5.5 GHz 25 mW at 5.8 GHz 200 mW at 6 GHz For details refer to <i>Ascom Myco 4 Safety Instructions, PM000353</i> .	
Regulatory domain:	Country dependent	
Network selection (SSID):	Multiple, auto selection, and manual selection	
Quality of Service (QoS):	802.11e and WMM	
Security standard:	802.11i	
Encryption methods:	AES-CCMP 128/256, AES-GCMP 128/256, SAE	
Encryption protocols:	TLS 1.1, TLS 1.2, and TLS 1.3 for Wi-Fi	
Authentication methods:	802.1X  Original IEEE 802.11 open, OWE, WPA-PSK, WPA2-PSK, WPA3-SAE, WPA2-Enterprise, WPA3-Enterprise, PEAP-MSCHAPv2, EAP-TLS, EAP-TTLS	
Roaming enhancements:	Opportunistic Key Caching, PMKSA caching	
SIP Telephony		
Protocols:	SIP supporting RFC3550, RFC4566, RFC4733, RFC4734, RFC3261, RFC3264, RFC6665, and RFC3515	
Encryption protocol:	SRTP including TLS	
Voice codecs:	G.711 A-law (EU), G.711 u-law (US), G.722, G.729	
Connectivity:	Wi-Fi, 3G, LTE, 5G	
Supported Barcodes		
1D symbologies:	UPC-A / UPC-E EAN / ISBN Code 39 Code 93 Codabar / NW-7	Interleaved 2 of 5 Code 128 GS1 DataBar-14 GS1 DataBar Expanded
2D symbologies:	PDF417 Data Matrix QR Code MicroQR	Aztec Inverse Data Matrix Inverse QR Code Inverse Aztec
Environmental		
Operating temperature:	-20° to 60° C (-4° to 140° F)	

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Storage temperature:	-20° to 50° C (-4° to 122° F), less than 1 month for the battery NOTE: Storing Li-ion batteries at high temperature dramatically reduces their capacity.
Charging temperature:	5° to 40° C (41° to 104° F)
Enclosure protection:	IP68, 1.5 m for 30 min
Disinfection possibilities:	Daily up to five times with Ethanol 85%, VirkonS 1%, Dettol Antiseptic, 85% mentholated ethanol, and also Isopropyl/Isopropanol 85% Sporadic up to one time a week with Ethanol 85%, and also 60% Chlorhexidin 0.5 mg/ml Oleic acid CAS No.: 112-80-1 UV cleaning 60 s, 5 times per day
Medical gloves:	The device is verified for use in the following gloves: Nitrile gloves with the thickness of 0.05 mm Vinyl gloves with the thickness of 0.035 mm
Immunity to electrostatic discharge (ESD):	8 kV contact discharge and 15 kV air discharge (EN61000-4-2)
Free fall test:	IEC 60068-2-31, procedure 1, dropped 12 times from 1.2 meters IEC 60068-2-31, procedure 2, dropped 1000 times from 0.5 meters NOTE: IEC 60068-2-31 supersedes IEC 60068-2-32 and requirements are equivalent in free fall test.
Drop test (shock test):	Multiple drops over a concrete block according to MIL-STD-810G
<b>Product Variants</b>	
SH4-ABCB	Ascom Myco 4 Slim Cellular Wi-Fi EEA
SH4-ABCE	Ascom Myco 4 Slim Cellular Wi-Fi
<b>Accessories</b>	
CB1-U1	Charger base
CTH-U01	Charger module for handset
CTH-U02	Charger module for handset and battery
CTB-U01	Charger module for battery
Backward compatible with DC5-AAAB	Desktop charger
Backward compatible with CR7-AAAA	Charging rack
Backward compatible with CR8-AAAA	Battery pack charger (must be used in combination with battery adapter 660746)
660746	Battery adapter for CR8-AAAA battery pack charger

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660730	Standard clip
660731	Clip blind plate
660732	Swivel clip (including belt clip)
660579	Color stickers for standard clip
660733	Spare battery pack
660735	Screen protector kit
660736	USB-C power supply 4A
660737	USB-C cable

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## Compliance to Regulations and Standards

Bluetooth marking:



## Compliance with European and UK Regulations and Standards

Product marking/certification:



EU directives and regulations:

RoHS in Electrical and Electronic Equipment Regulations 2015/863 amending 2011/65/EU  
 REACH Regulation (EC) 1907/2006  
 Battery Directive 2006/66/EC amending 2013/65/EU  
 Packaging Directive 94/62/EC  
 WEEE Directive 2012/19/EU  
 RED Directive 2014/53/EU

UK directives and regulations:

RoHS in Electrical and Electronic Equipment Regulations 2012  
 The REACH Enforcement Regulations 2008  
 The Batteries and Accumulators (Placing on the Market) Regulations 2008 and the Waste Batteries and Accumulators Regulations 2009  
 The Packaging (Essential Requirements) Regulations 2015  
 The Waste Electrical and Electronic Equipment Regulations 2013  
 Radio Equipment Regulations 2017

Radio:

EN 301908-1, EN 301908-2, EN 301908-13, EN 301908-25, EN 301511, EN 300328, EN 301893, EN 303413, EN 300440, EN 300330, EN 303687

SAR (Specific Absorption Rate):

EN 50360 (close to ear) 0.790 W/kg (10 g)  
 EN 50566 (handheld/body mounted) 1.722 W/kg (10 g)  
 Limbs 3.364 W/kg (10 g)

Safety:

EN 62368-1

EMC:

EN 301489-1, EN 301489-3, EN 301489-17, EN 301489-19, EN 301489-52, EN 55032, EN 55035

## Compliance with Australian and New Zealand Regulations and Standards

Product marking:



EMC/Radio:

AS/NZS 4268, EN 55032  
 AS/CA S042  
 FCC part 22

Audio:

AS/ACIF S004

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Safety:	AS/NZS 62368
SAR (Specific Absorption Rate):	EN 50360 (close to ear) 0.790 W/kg (10 g) EN 50566 (handheld/body mounted) 1.456 W/kg (10 g) AS/NZS 2772.2 IEC 62479-1, IEC 62479-2

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